AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A method for the fabrication of a field-effect transistor comprising the steps of:

forming a semiconductor layer serving as an active layer on a substrate; setting the substrate temperature at no higher than 100°C and forming a gate insulating film on said semiconductor layer, such that interface level density between the semiconductor layer and the gate insulating film is no greater than 10¹¹cm⁻²eV⁻¹; and

heat treating said gate insulating film in an atmosphere containing water.

- 2. (previously amended) The method for the fabrication of a field-effect transistor according to claim 1, wherein heat treatment of said gate insulating film is conducted at a temperature of no less than 100°C.
- 3. (previously amended) The method for the fabrication of a field-effect transistor according to claim 1, wherein the formation of said gate insulating film is conducted while heating of said substrate is being prohibited.

- 4. (previously amended) The method for the fabrication of a fieldeffect transistor according to claim 1, wherein the formation of said gate
 insulating film is conducted while said substrate is being cooled to a temperature
 of no higher than room temperature.
- 5. (previously amended) The method for the fabrication of a field-effect transistor according to claim 1, wherein said gate insulating film is formed by a plasma CVD method.
- 6. (previously amended) The method for the fabrication of a field-effect transistor according to claim 1, wherein said gate insulating film is formed by a microwave plasma CVD method.
- 7. (currently amended) A method for the fabrication of a field-effect transistor comprising the steps of:

forming a semiconductor layer serving as an active layer on a substrate; setting the substrate temperature at no higher than 100°C and forming a first-stage gate insulating film on said semiconductor layer, such that interface level density between the semiconductor layer and the gate insulating film is no greater than 10¹¹cm⁻²eV⁻¹; and

setting said substrate temperature at no less than 100°C and forming a second-stage gate insulating film.

- 8. (original) The method for the fabrication of a field-effect transistor according to claim 7, further comprising a step of heat treating said first-stage gate insulating film in an atmosphere containing water after the formation of said first-stage gate insulating film.
- 9. (previously amended) The method for the fabrication of a field-effect transistor according to claim 8, wherein heat treating of said gate insulating film is conducted at a temperature of no less than 100°C.
- 10. (previously amended) The method for the fabrication of a field-effect transistor according to claim 7, wherein the formation of said first-stage gate insulating film is conducted while heating of said substrate is being prohibited.
- 11. (previously amended) The method for the fabrication of a field-effect transistor according to claim 7, wherein the formation of said first-stage gate insulating film is conducted while said substrate is being cooled to a temperature of no higher than room temperature.
- 12. (previously amended) The method for the fabrication of a field-effect transistor according to claim 7, wherein the formation of said first-stage gate insulating film is conducted by a plasma CVD method.

- 13. (previously amended) The method for the fabrication of a field-effect transistor according to claim 7, wherein the formation of said first-stage gate insulating film is conducted by a microwave plasma CVD method.
- 14. (previously amended) The method for the fabrication of a field-effect transistor according to claim 7, wherein the formation of said second-stage insulating film is conducted by a plasma CVD method using TEOS gas.
- 15. (currently amended) An electronic apparatus manufactured by the fabrication method of a field-effect transistor, the fabrication method comprising the steps of:

forming a semiconductor layer serving as an active layer on a substrate; setting the substrate temperature at no higher than 100°C and forming a gate insulating film on said semiconductor layer, such that interface level density between the semiconductor layer and the gate insulating film is no greater than 10¹¹cm⁻²eV⁻¹; and

heat treating said gate insulating film in an atmosphere containing water.

16. (currently amended) An electronic apparatus manufactured by the fabrication method of a field-effect transistor, the fabrication method comprising the steps of:

forming a semiconductor layer serving as an active layer on a substrate; setting the substrate temperature at no higher than 100°C and forming a first-stage gate insulating film on said semiconductor layer, such that interface level density between the semiconductor layer and the gate insulating film is no greater than 10¹¹cm⁻²eV⁻¹; and

setting said substrate temperature at no less than 100°C and forming a second-stage gate insulating film.